

&lt;!--StartFragment--&gt;RESULT 7

AY057051

LOCUS AY057051 2245 bp mRNA linear PRI 11-AUG-2003

DEFINITION Homo sapiens lysosomal associated transmembrane protein 4 beta, variant 1 (LAPTM4B) mRNA, complete cds.

ACCESSION AY057051

VERSION AY057051.2 GI:30146628

KEYWORDS .

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 2245)

AUTHORS Shao,G.Z., Zhou,R.L., Zhang,Q.Y., Zhang,Y., Liu,J.J., Rui,J.A., Wei,X. and Ye,D.X.

TITLE Molecular cloning and characterization of LAPTM4B, a novel gene upregulated in hepatocellular carcinoma

JOURNAL Oncogene 22 (32), 5060-5069 (2003)

PUBMED 12902989

REFERENCE 2 (bases 1 to 2245)

AUTHORS Shao,G. and Zhou,R.

TITLE Direct Submission

JOURNAL Submitted (24-SEP-2001) Cell Biology, Peking University Health Science Center, 38# XueYuan Road, Beijing 100083, China

REFERENCE 3 (bases 1 to 2245)

AUTHORS Shao,G. and Zhou,R.

TITLE Direct Submission

JOURNAL Submitted (23-MAY-2002) Cell Biology, Peking University Health Science Center, 38# XueYuan Road, Beijing 100083, China

REMARK Sequence update by submitter

REFERENCE 4 (bases 1 to 2245)

AUTHORS Shao,G. and Zhou,R.

TITLE Direct Submission

JOURNAL Submitted (24-MAR-2003) Cell Biology, Peking University Health Science Center, 38# XueYuan Road, Beijing 100083, China

REMARK Sequence update by submitter

COMMENT On Apr 28, 2003 this sequence version replaced gi:16508140.

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/chromosome="8"

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/gene="LAPTM4B"

CDS 157..1110

/gene="LAPTM4B"

/note="LAPTM4B\_v1; similar to sequence in GenBank

Accession Number AF527412; transcript has alternate

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/protein\_id="AAL17908.2"

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SIQEYIRQLPPNFPYRDDVMSVNPTCLVLIILLFISIIILTFKGYLISCVWNCYRYING

RNSSDVLVYVTSNDTTVLLPPYDDATVNGAAKEPPPPYVSA"

ORIGIN

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Db	217	GCTGCAGCCGTCGCCTTCGGAGCGAAGGGTACCGACCCGGCAGAAGCTCGGAGCTCTCGG	276
Qy	121	GGTATCGAGGAGGCAGGCCCGCGGGCGCACGGGCGAGCGGGCCGGGAGCCGGAGCGGCGG	180
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Qy	781	GGTTACTTGATTAGCTGTGTTTGGAACTGCTACCGATACATCAATGGTAGGAACCTCTCT	840
Db	937	GGTTACTTGATTAGCTGTGTTTGGAACTGCTACCGATACATCAATGGTAGGAACCTCTCT	996
Qy	841	GATGTCCTGGTTTATGTTACCAGCAATGACACTACGGTGCTGCTACCCCGTATGATGAT	900
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Qy      901  GCCACTGTGAATGGTGCTGCCAAGGAGCCACCGCCACCTTACGTGTCTGCCTAA 954
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&lt;!--StartFragment--&gt;RESULT 1

LAP4B\_HUMAN

ID LAP4B\_HUMAN Reviewed; 370 AA.

AC Q86VI4; Q3ZCV5; Q7L909; Q86VH8; Q9H060;

DT 19-SEP-2006, integrated into UniProtKB/Swiss-Prot.

DT 01-JUN-2003, sequence version 1.

DT 24-NOV-2009, entry version 43.

DE RecName: Full=Lysosomal-associated transmembrane protein 4B;

DE AltName: Full=Lysosome-associated transmembrane protein 4-beta;

GN Name=LAPTM4B; ORFNames=PSEC0001;

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;

OC Catarrhini; Hominidae; Homo.

OX NCBI\_TaxID=9606;

RN [1]

RP NUCLEOTIDE SEQUENCE [MRNA] (ISOFORMS 1 AND 2), AND SUBCELLULAR

RP LOCATION.

RX MEDLINE=22784637; PubMed=12902989; DOI=10.1038/sj.onc.1206832;

RA Shao G.-Z., Zhou R.L., Zhang Q.Y., Zhang Y., Liu J.J., Rui J.A.,

RA Wei X., Ye D.X.;

RT "Molecular cloning and characterization of LAPTM4B, a novel gene

RT upregulated in hepatocellular carcinoma.";

RL Oncogene 22:5060-5069(2003).

RN [2]

RP NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 3).

RA Hogue D.L.;

RL Submitted (OCT-2000) to the EMBL/GenBank/DDBJ databases.

RN [3]

RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM 3).

RX PubMed=16303743; DOI=10.1093/dnares/12.2.117;

RA Otsuki T., Ota T., Nishikawa T., Hayashi K., Suzuki Y., Yamamoto J.,

RA Wakamatsu A., Kimura K., Sakamoto K., Hatano N., Kawai Y., Ishii S.,

RA Saito K., Kojima S., Sugiyama T., Ono T., Okano K., Yoshikawa Y.,

RA Aotsuka S., Sasaki N., Hattori A., Okumura K., Nagai K., Sugano S.,

RA Isogai T.;

RT "Signal sequence and keyword trap in silico for selection of full-

RT length human cDNAs encoding secretion or membrane proteins from oligo-

RT capped cDNA libraries.";

RL DNA Res. 12:117-126(2005).

RN [4]

RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM 3).

RC TISSUE=Uterus;

RX MEDLINE=21154917; PubMed=11230166; DOI=10.1101/gr.GR1547R;

RA Wiemann S., Weil B., Wellenreuther R., Gassenhuber J., Glassl S.,

RA Ansorge W., Boecher M., Bloecker H., Bauersachs S., Blum H.,

RA Lauber J., Duesterhoeft A., Beyer A., Koehrer K., Strack N.,

RA Mewes H.-W., Ottenwaelder B., Obermaier B., Tampe J., Heubner D.,

RA Wambutt R., Korn B., Klein M., Poustka A.;

RT "Towards a catalog of human genes and proteins: sequencing and

RT analysis of 500 novel complete protein coding human cDNAs.";

RL Genome Res. 11:422-435(2001).

RN [5]

RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORMS 2 AND 3).

RC TISSUE=Brain, Eye, and Lung;

RX PubMed=15489334; DOI=10.1101/gr.2596504;

RG The MGC Project Team;

RT "The status, quality, and expansion of the NIH full-length cDNA

RT project: the Mammalian Gene Collection (MGC).";

RL Genome Res. 14:2121-2127(2004).

RN [6]

RP PHOSPHORYLATION [LARGE SCALE ANALYSIS] AT TYR-367, AND MASS

RP SPECTROMETRY.

RX PubMed=18083107; DOI=10.1016/j.cell.2007.11.025;

RA Rikova K., Guo A., Zeng Q., Possemato A., Yu J., Haack H., Nardone J.,  
 RA Lee K., Reeves C., Li Y., Hu Y., Tan Z., Stokes M., Sullivan L.,  
 RA Mitchell J., Wetzel R., Macneill J., Ren J.M., Yuan J.,  
 RA Bakalarski C.E., Villen J., Kornhauser J.M., Smith B., Li D., Zhou X.,  
 RA Gygi S.P., Gu T.-L., Polakiewicz R.D., Rush J., Comb M.J.;  
 RT "Global survey of phosphotyrosine signaling identifies oncogenic  
 RT kinases in lung cancer.";  
 RL Cell 131:1190-1203(2007).  
 CC -!- SUBCELLULAR LOCATION: Endomembrane system; Multi-pass membrane  
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 CC Name=3;  
 CC IsoId=Q86VI4-3; Sequence=VSP\_020545;  
 CC -!- SIMILARITY: Belongs to the LAPTM4/LAPTM5 transporter family.  
 CC -----  
 CC Copyrighted by the UniProt Consortium, see <http://www.uniprot.org/terms>  
 CC Distributed under the Creative Commons Attribution-NoDerivs License  
 CC -----  
 DR EMBL; AF527412; AAP14034.1; -; mRNA.  
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 DR PRIDE; Q86VI4; -.  
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 DR KEGG; hsa:55353; -.  
 DR UCSC; uc003yia.1; human.  
 DR CTD; 55353; -.  
 DR GeneCards; GC08P098856; -.  
 DR HGNC; HGNC:13646; LAPTM4B.  
 DR HPA; CAB020782; -.  
 DR PharmGKB; PA128395785; -.  
 DR HOVERGEN; Q86VI4; -.  
 DR NextBio; 59711; -.  
 DR ArrayExpress; Q86VI4; -.  
 DR Bgee; Q86VI4; -.  
 DR CleanEx; HS\_LAPTM4B; -.  
 DR Genevestigator; Q86VI4; -.  
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 DR GO; GO:0016021; C:integral to membrane; IEA:UniProtKB-SubCell.  
 DR GO; GO:0006810; P:transport; IEA:UniProtKB-KW.  
 DR InterPro; IPR018401; Lysosomal-assoc\_TM\_prot4B.  
 DR InterPro; IPR004687; Mtp\_transporter.  
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 DR Pfam; PF03821; Mtp; 1.

PE 1: Evidence at protein level;  
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 KW Transmembrane; Transport.  
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